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Edge, E.R.

Nevada: Mineral, Lander, Lyon Cos.

1934



1934

Zoology Field Class: June 27-August 1, 1934  
Nevada: Mineral, Lander & Lyon Cos.

Edge, E. R.

Catalog of Specimens  
Nos. 500 - 620

Itinerary

Species accounts



ER

Boag  
1934

Patologue

2 mi. SW Pine Grove, 7250 ft., Mineral Co., Nev.

June 28 1934

500 ♀ *P. maniculatus* 164-71-20-19 = 94.2 gms 4 emb. 11 mm.

501 ♂ " 163-64-20-20 = 91.8 gms.

~~502 ♀ Callospermophilus lateralis~~ ~~223-79-40-18 = 103 gms~~ <sup>sent to Edge</sup>

503 ♀ *Guttmans quadrivittatus* 195-84-29-21 = 43.5 gms

504 ♂ West. Tanager June 29, 1934 <sup>♂ ppk 30 gm.</sup>

505 ♀ *P. truei* 165-81-23-26 = 20.3 2m.

506 ♀ *P. maniculatus* 153-62-20-19 = 26.8 gms 4 emb. 18 mm.

507 ♀ *P. maniculatus* 173-73-20-18-21.8

508 ♂ *P.* " 161-72-20-18 = 20.3 gms

509 ♂ *P.* " 157-69-20-19-20.0 gms

510 ♂ Green-tail Towhee 38.3 gms.

June 30, 1934

511 ♀ *Perog. parvus* 172-93-24-8 = 16.0 gms 8 emb 2 mm

~~512 ♀ "~~ ~~164-85-23-8 = 14.0 gms~~ <sup>- Sent to Edge</sup>

513 ♂ *P. maniculatus* 143-63-21-18 = 16.2 gms.

514 ♂ " " 164-70-21-19 = 22 gms

515 ♀ " " 154 69 21-19 = 16.8 gms

~~516 ♀ <sup>170</sup> *Thomomys quadratus* 191-52-26-8 = 99 gms.~~ <sup>Sent to Edge</sup>

517 ♀ Juncos 13.6 gms.

518 ♀ *Thomomys quadratus* 178-52-26-6 = 55.5 gms.

519 ♂ Texas Night Hawk 60.8 gms.

July 1, 1934.

12 mi. S Yerington, 4600 ft., W. Walker R., Lyon Co., Nev.

520 ♂ House Finch 20.5 gms.

Over



Ledge  
1934

Catalogue

July 2, 1934

12 mi. S Merington, 4600 ft., W. Walker R., Lyon Co., Nev.

521 *R. megalotis* - 138-67-18-15 = 11.7

522 *P. truei* - 183-86-25-26 = 30.7 gm.

523 ♀ *Perog. formosus* - 180-101-23-11 = 16.9 gms.

524 ♀ *Perog. formosus* - 174-95-23-10 = 16.4 gms.

525 ♂ House Finch 28.8 gms.

526 ~~P. crinitus~~ 11-87-20-20 = 16.3 gms. Sent to Edge

527 *P. maniculatus* - 150-61-20-19 = 16.3 gms.

528 ♀ *P. crinitus* 150-76-20-19 = 14.6 gms.

July 3, 1934

529 ♂ Yellow Warbler 9 gms.

530 ♂ ~~P. maniculatus~~ - 163-68-20-18 = 22.2 gms. Sent to Edge

531 ♀ *P. formosus* - 176-99-24-10-15.7 gms.

532 ♂ *P. maniculatus* - 146-56-20-18-15.5 gms.

533 ♂ *R. megalotis* - 136-62-17-15-11.1 gms.

534 ♀ *R. megalotis* 132-63-17-18-10.5 gms.

535 ♂ Mourning Dove - 117.3 gms.

July 4, 1934.

~~10 mi. S Merington, Mason Valley, Lyon Co., Nev.~~ 4500 ft. Sent to Edge

536 ♀ ~~Dipsosaurus ordii~~ 225-124-38-12-45.7 gms 3 emb 12 mm

537 ♀ " " 223-119-38-12-40.2 gms.

538 ♀ *R. megalotis* - 143-70-16-14 = 12.7 gms 5 emb 3 mm

539 ♀ " " 141-64-17-15 10.8 gms 4 emb 1 mm.  
11 3/4 mi S + 2 3/4 mi. E Merington 4650 ft., Mason Valley, Lyon Co., Nev.

540 ♂ *Dipsosaurus merriami* - 215-122-35-13-32.0 gms.

541 ♀ *Perog. longimembris* 138-72-18-7 = 7.8 gms. 5 emb 2 mm

542 ♂ " " 137-73-18-7 = 7.8 gms. Sent to Edge



Edge  
1934

Pataogue

July 4	$11\frac{3}{4}$ <del>8</del> <sup>ft</sup>	$2\frac{3}{4}$ mi E. Mervington	4650 ft.	Lyon Co., Nev.	Mason valley,
543	♀	Merodopodops pallidus	-155-84-24-9-13.9	7mm. 4mm.	gms.
544	♂	"	163-88-25-10-14.3	gms.	
545	♀	"	157-83-25-10-13.5	4mm. 3mm.	gms.
546	♂	"	168-86-26-11-14.3	gms.	
547	♀	Black-throated Sparrow.	14.2	gms.	

July 5, 1934

10 $\frac{1}{2}$ mi S Mervington	4500 ft.	Walker River	Lyon Co., Nev.
548	♂	Redwing Blackbird	63.5 gms.
549	♂	W. Bluebird -	27.5 gms.
550	♂	Indigo Bunting	13.7 gms.
551	♂	Maryland Yellow Throat	10.0 gms.
552	♂	Savannah Sparrow	18.0 gms.
553	♀	West. Robin	82.0 gms.

July 6, 1934

skull only - 554	♂	S. Caly. deserticola	571-70-120-127 = 2604.4 gms.
555	♂	Marsh Wren -	9 gms.
556	♂	Spotted Towhee -	37.6 gms.
557	♂	Arkansas Kingbird	29.7 gms.
558	♀	W. Meadow Lark -	88.5 gms.
559	♂	Redwing Blackbird	64.3 gms.
560	♀?	Red Shafted Flicker	132.0 gms.
12 mi S Mervington 4600 ft W. Walker R., Lyon Co., Nev.			
561	♀	Trail? Flycatcher	12 gms.

July 8, 1934.

~~5 $\frac{1}{2}$~~  3 mi S Shurz, 4100 ft., Mineral Co., Nev.

562 ♂ T. Manculatus - 152-61-21-18 = 20.0 gms

563 ♂ Perog. longirostris 130-73-18-6 = 9.8 gms

Over



Edge

1934

Catalogue

July 8<sup>th</sup> Contd -

7 mi NW Shurz 4500ft., Mineral Co., Nev.

564 ♂ <sup>♀</sup> Ony. leucogaster brevicaudus.

565 ♂ Perog. longimembris 124-68-19-6 = 7.0 gms.

566 ♂ " " 127-70-19-6 = 7.2 gms

567 ♀ " " 128-70-18-6.6.5 gms.

568 ♀ " " 129-72-19-6 = 6.4 gms.

569 ♀ Dip. m. levipes 273-163-43-14 = 72.3 gms <sup>2 emb 17 mm</sup>

~~570 ♂~~ " " 246 ~~123~~ - 43-14 = ~~66.8 gms~~ <sup>Sent to Edge</sup>

3 mi S Shurz, 4100ft., Mineral Co., Nev.

571 ♀ Harry Wood Pecker - 58.3 gms.

572 Leopard Lizard -

573 ♂ Ammospermophilus leucurus - 177-~~28~~ - 38-11 = 108.7 gms

July 9 - 3 mi S Shurz, 4100ft., Mineral Co., Nev.

~~574 ♀ Pipistrellus hesperus~~ 81-31-6-13 tr. 8 = 5.5 gms <sup>sent to Edge</sup>

575 ♀ Microdipodops pallidus - 165-93-26-9 = 12.8 gms.

~~576 ♂~~ " " 159-84-25.2-9 = 12.9 gms <sup>Sent to Edge</sup>

577 ♂ Perom. maniculatus - 163-72-21-19 = 9.1 gms

578 ♂ " " 169-77-21-18 = 20.0 gms.

579 ♀ " " 160-67-19-17 = 18.4 gms.

580 ♂ Black throated Sparrow. 13.0 grams.

583 Spade footed Toad.

582 ♂ Dip. m. Merriami - 240-139-36-14 = 49.0 gms -

581 ♀ " " 233-130-37-14 = 38.7

584 ♀ Barn Swallow. 14.8 gms

585 Gila Horned Lizard. (Walker Lake Shae)

July 10

586 ♀ Ammos. leucurus - 198.59-37-11 = 73 gms

587 ♂ Lazuli Bunting 13.2 gms.



Edgar  
1934

Catalogue

July 10<sup>th</sup> <sup>Contd</sup>

3 mi S Shurz, 4100 ft., Mineral Co., Nev.

588 ♀ *Lasallei* bunting - 15.6 gms.

589 ♂ *Sceloporus* <sup>lizard</sup> *Magister* 10.

590 " " "

591 *Thomomys bottae* - 220-73-30-6 = 118.4

592 ♂ " " 222-74-31.5-6 = 129.8 gms

593 ♂ " " 245-79-33-6 = 135.6 gms

594 ♀ " 172-61-27-5-54.1 gms.

595 ♀ " " 177-64-27-5-58.3 gms.

July 12<sup>th</sup> Sapón Canyon, 8900 ft., Mt. Grant, Mineral Co., Nev.

596 ♂ *Petro. parvus* - 190-99-24.5-8 = 22.1 gms.

597 ♂ " " 170-88-24-8 = 16.3 gms.

598 ♂ *Centrocercus minimus* - 171-78-29-14 = 29.0 gms

599 ♂ *Thomomys quadratus* - 193-42-29-5.5 = 110.3 gms.

600 ♂ " " 208-60-28-5.5 = 97.2 gms.

601 ♂ *Callo. lateralis* - 220-82-39-19 = 89.4 gms.

602 ♂ *Cuv. o.* 20.0 gms.

603 ♂ Mt. Bluebird 30.5 gms.

July 13<sup>th</sup>

604 ♂ *Microtus montanus* - 177-38-21-14 = 58.6 gms

~~605 ♂ " "~~ ~~147-38-18-12 = 40.7 gms~~ <sup>Sent to Edgar</sup>

606 ♂ " " 171-40-20-14 = 57.5 gms

607 ♀ " " 123-34-19-12 = 23.5 gms.

608 ♀ *Thomomys quadratus* 196-63-28-6 = 98.0 gms

609 ♀ " " 179-56-26-6 = 73.0 gms.

610 ♂ *Microtus montanus* - 163-41-20-12-41.5 gms

611 ♀ " " 183-44-21-12-48.4 gms 6 emb - 1 mm.

612 ♀ " " 170.45-22-12-46.3 gms 4 emb 11 mm.



Edge  
1934

Palatogne

July 13<sup>th</sup> Contd.

613-♂? Horned Lark - 29.0 gms.

614 ♀ *M. montanus* - 143-37-20-12-31.2 gms -

July 14<sup>th</sup>

615, ♂ *Merotus montanus* - 173-45-20-13-40.0 gms.

616 ♀ 4 " 154-35-20-14-39.2 gms

617 ♀ " 153-37-21-14-32.7 gms

618 ♂ " " 151-39-21-13-36.1 gms

July 15 1934

Cottonwood Creek 9400 ft., Mt. Grant, Mineral Co., Nev.

619 - Toad -

~~Skeleton~~  
~~only~~ 620 ♂ Mt. Quail -

170 gms <sup>Crop contents</sup> saved.

621 ♂ *Merotus montanus* - 180-64-21-14-37.4 gms <sup>Sent to Edge</sup>

622 ♀ *Neotoma cinerea* - 241-113-40-31.5-215.5 gms. <sup>Sent to Edge</sup>







Edge 1934

## Itinerary

June 27<sup>th</sup> 2 mi. SW Pine Grove, 7250 ft.,  
Mineral Co. Nevada

Left Berkeley Calif. at 9 a.m. June 26, 1934  
in three cars. party seven persons;  
Brode, J. Stanley, Lodge, Elton R., Alethias  
Dawson A., Hall, G. Raymond, Johnson, David H.  
Palmer, Fletcher G., Russell, Ward C.

Drove via Parqueez Bridge, Sacramento,  
Placerville, South end Lake Tahoe, Glenbrook,  
Parson City, Minden, Gardnerville to a  
point in the hills about 15 mi. S of  
Gardnerville where we slept beside the  
road. Left our overnight camp<sup>6<sup>00</sup> am.</sup> and drove  
via Wellington eastward along the  
West Walker River into Mason Valley, then  
southward to a point  $4\frac{1}{2}$  miles N. E. of  
Pine Grove, turned right and drove  
up a canyon past Pine Grove to camp  
site as given at head of page. Arrived  
here about 11:30 a.m.

Started putting out traps about 4:30 p.m.  
beginning at a point up the canyon  
about two hundred yds above the camp  
and going in an easterly direction up  
a small canyon - <sup>S. side</sup> ~~about~~ returning to  
camp along the N side and over  
the top of the ridge. No goat sized  
mouse trap, and 3 rat traps were used.



Itinerary  
6/26-1934

June 27 Cont'd.

Appx. 25 traps were placed in Artemisia at the bottom of the canyon - space on an average of about 8 paces. The remaining traps were irregularly distributed in the Pinon and among patches of broken rock - soil: Sandy loam <sup>with broken</sup> rock.

June 28. Took 14 mammals from trap line, species as follows. 14 P. maniculatus sonoriensis -

Visited trap line 1<sup>00</sup> p.m. - twenty five traps out - 15 in Artemisia - 10 in fragmented rock at top of ridge - Total specimens 3 mammals and 1 green-tailed towhee - mammals as follows -

1 Pallidospalophilus lateralis trepidus,  
Eudromias minimus and 1, Eudromias quadriwattus  
shot one male W. Tanager.

Drove up Canyon S with Hall to point about 2 miles S of Camp. Set out traps at three places, 20 traps (goat mouse) ~~at and~~ farthest out 7800 ft in low Artemisia with occasional pinon pines - soil sandy loam with considerable amount of broken rock present 12 traps were put out about  $\frac{1}{3}$  mi back along road towards the camp - vegetation much same except



Itinerary  
Edge  
1934

even spacers up the hill - soil same.  
June 28 cont'd 15 traps were put out about half  
way back to Camp - <sup>1600 ft.</sup> Artemesia  
here was thicker and of taller  
growth, occasional piñon pines occurred  
Soil; sandy loam.

June 29 Took up traps put out with Hall  
total 21 Mammals - 19 P. maniculatus  
2 P. truei. With respect to Pine Grove  
this location was about  $3\frac{1}{2}$  miles SW  
of Pine Grove and specimens are so  
labeled. Those from the last station, i.e.  
nearer Camp  $2\frac{3}{4}$  miles SW Pine Grove and  
elev. 1600 ft.

Took up trap that had been out all day  
yesterday about 8 am - 15 traps in Artemesia  
yielded 5 P. maniculatus, 9 traps in rock  
outcrop top of ridge yielded nothing.

Put out 44 traps - 41 goat mouse - 3 rat  
N of Camp in sage brush and  
open hill sides among piñons - soil  
sandy loam in former, and sand, broken  
rock and rock outcrop in latter. <sup>Spaced</sup> about 7 paces.

June 30 Took up traps south of Camp - total  
15 mammals and 1 junco, mammals as  
follows - 2 Peregr. parvus and 13 P. maniculatus  
The tall fairly dense Artemesia appeared  
to afford best trapping.



Itinerary  
Edge  
1934

June 30<sup>th</sup> Cont'd. Put out 3 double gopher sets  
north of camp about 7<sup>00</sup> a.m. took two  
T. quadratus by 1<sup>00</sup> p.m.

This camp is located in what  
appeared to be the upper part of  
the Pinyon belt in steeply rolling  
country of alternate ridges and  
narrow valleys. The hillsides near  
the camp have a fairly dense growth  
of Pinyon pines, the valleys support  
a more or less dense growth of  
Artemesia with some Chrysothamnus  
scattered here and there. On some  
of the higher and rocky hillsides only  
a meager growth of low Artemesia  
occurs. On the higher summits  
Mountain Mahogany occurs. The  
soil varies. In the valleys, there  
may be sandy loam, on the  
hillsides this is mixed with a  
great deal of fragmented rock.  
On the sides of the ridges and on  
the tops frequent outcrops of a  
volcanic type of rock can be found.  
Water is not abundant but an  
occasional spring or seepage  
appears and in their vicinity a  
small patch of meadow usually



Itinerary  
Pidge  
1934

June 30 Cont'd

occurs. This has a thick carpet of short grass - The shortness may be due to sheep grazing - Large numbers of sheep apparently pasture thru this entire region earlier in the season. There are numerous prospect holes in the vicinity and the country around Pine Grove has ~~been~~ had the vegetation somewhat modified by man, as there are several large mines (gold) there which give evidence of having employed a considerable number of men years ago. The road in thru Pine Grove is fairly steep in a number of places as well as rough - but no difficulty was encountered in getting over it.

July 1 - Broke camp 2 mi. SW Pine Grove and left there at 9<sup>00</sup>a.m. Roadster, two trucks, all equipment and personnel. The road <sup>straight N down the canyon</sup> out to the main highway appeared was a better road than the one by which we entered.

Reached the new camp site on the bank of the West Walker River about 10 30 a.m. Location is



Itinerary  
Edge  
1934  
July 1<sup>st</sup> Cont. -

12 mi. S Merington, 4600 ft., W. Walker  
R., Lyon Co., Nev.

Put out 50 traps 10 along River bank  
5 thru willows and brush - remainder  
over gravelly and rocky area which  
included relatively level area, hillside  
and top of ridge - The hill side was  
very rocky with many boulders of  
considerable size. Dominant vegetation Atriplex

July 2. Took up traps which contained a  
total of eleven mammals as follows -

1 R. megalotis, 1 P. truei, 3 Perog. formosus,  
2 P. eremicus, 4 P. maniculatus. The  
relatively level area gave very poor  
results.

Put out 40 traps NE of Camp - (Govt)  
15 along bank of irrigation ditch <sup>Atriplex</sup>  
willows  
10 in most grassy area - Willows  
15 on side and summit of rocky ridge - Atriplex  
cottonwoods

July 3 Took up traps this morning total  
16 mammals as follows: 8 P. maniculatus  
2 P. eremicus, 2 Perog. formosus, 1 Perog.  
longimembris, 3 R. megalotis

Put out 18 Govt and 1 rat trap on  
sandy ridge at edge of alfalfa field -  
mixtures of large shrubs - Atriplex and others on  
sandy soil - 10 mi S Merington 4500 ft., Mason Valley



Edge Itinerary  
1434

July 3<sup>rd</sup> Cont'd

Put out 32 traps (Govt.) in a sandy draw  $11\frac{3}{4}$  mi S,  $2\frac{3}{4}$  ~~NE~~ of Yerington 4650 ft, Mason Valley. Sandy at bottom of gully with patches of loose sand on the gently sloping sides - vegetation scattered Atriplex of rather low habit.

July 4<sup>th</sup>

From the 32 traps at  $11\frac{3}{4}$  mi S,  $2\frac{3}{4}$  mi E Yerington, Mason Valley took 8 mammals as follows: 4 Microdipodops pallidus

2 Dipodomys longimembris 2 Dipodomys Merriami

From 18 traps on sand ridge 10 mi S

Yerington, 4500 ft, Mason Valley took

7 mammals: 5 Dipodomys ordii, 2 Reithrodontomys megalotis.

Put out ~~8~~ 3 #1 steel traps along south bank of River across from the camp.

July 5<sup>th</sup>

Hunted for birds this morning  $10\frac{1}{2}$  mi S Yerington, W. Walker River, Lyon Co. <sup>now</sup> higher ground along river, large cottonwood trees; but off to south tide swamps and willows. Considerable bird life present.

Species collected are indicated in Catalogue

Yours seen but not taken - Black crowned Night

heron, Meadow lark, Song Sparrow, Downy

Wood pecker, <sup>Marshy</sup> ~~Red-tailed~~ hawk? Sparrow Hawk,

Quail, Killdeer, Cliff Swallows, Bow-birds,

Visited steel traps first thing in the morning



Boggs

# Itinerary

1924

July 5<sup>th</sup> Cont'd - Not disturbed and no tracks near.

July 6<sup>th</sup> Hunted birds this morning 10 1/2 mi S  
Merrington, W. Walker River, Lyon Co., Nev. -

Birds seen but not already recorded in  
itinerary or Catalogue: Bush-tit, Hairy?  
woodpecker. 3 Steel traps across river  
from camp un molested.

This camp was located along side  
of the River on relatively low sandy  
ground. There were numerous Cotton  
woods and willows along the bank  
with Atriplex back from the river.  
The valley was two or three hundred  
yards wide at this point narrowing  
to a gorge about 1/4 mile ~~south~~ west of  
the camp. Stony and gravelly ridges  
rose in succession to the main ridge  
perhaps 800 to 1000 ft above the river.  
Several irrigation ditches are on  
each side of the river - with  
Cottonwoods and willows on either bank.  
The river itself had a fairly rapid fall  
with rocky bottom in most places although  
here and there in quieter parts the  
bottom and shores were sandy. Birds  
were fair. Numerous in the willows  
and willows near the river - Poon-tracks  
were observed at several stages. Some



Pedge  
1934

Itinerary

July 6<sup>th</sup> : river - was taken -

July 7<sup>th</sup> Traveled up the 3 steel traps - no results.

Then camped at the first camp and traveled via Union to Lamy. The road was thru the valley. Many cotton fields with occasional waste lots until we started over a low range of hills about 12 miles NW of Lamy. This type of country lasted until almost into Lamy. The vegetation was dominantly Atriplex at ~~divalck~~ growth on the slopes and but sides.

Camp was established 3 mi. S. Lamy,  
4100 ft., Mineral Co., New.

45 traps (good) were set out 7 mi NW of Lamy, 4500 ft., Mineral Co., on sandy slope mixed with a small brown black rock - the vegetation was low Atriplex.

9 traps good were put out N of camp in sandy soil good growth of Atriplex. Received "first mail" of the trip this afternoon.

July 8<sup>th</sup> 45 traps, 7 mi. NW Lamy, 4500 ft., yielded 9 mammals as follows: 6 Perog. longimembris, 2 Dip. microps leuipes, 1 O. l. brevicaudus. No black Microdipodops as predicted by Russell.



Aug  
1934

Itinerary

July 8<sup>th</sup> cont'd. 9 trap N of Camp - 3 mi S Shurz  
4100 ft. Caught 3 mammals - 2 *P. maniculatus*  
1 *Perog. longimembris*.

In afternoon walked around camp  
and shot a hairy woodpecker, an  
*Ammospermophilus* and a leopard lizard.  
Set out <sup>45 traps</sup> 35 goat traps in sand north  
of camp - sand soft and deep in  
many places with large *Chrysothamnus*  
and *Atriplex*. 10 traps along river?  
bank in willows and small cottonwoods  
Shot a bat *Pipistrellus*.

July 9<sup>th</sup> Took 12 mammals - 9 in sand north of  
Camp. 2 *microdipodops* and 7 *Dip. Merriami*  
and 3 *P. maniculatus*. Shot a black throated  
sparrow and a barn swallow.

In <sup>late</sup> afternoon visited East shore of Walker  
Lake - about 8 mi S. Shurz. The shore line  
has receded markedly apparently with  
recent times as all shore lines are  
conspicuous - There are wide bands of gravel  
separating zones of sand - the sand  
zones seem well populated with *D. ordii*  
apparently in the lowest zone - Looks  
like it would be an excellent place to  
study succession. A number of  
birds were observed on the lake - gulls,  
cormorants and white pelican.



Edge  
1934

## Itinerary

July 10<sup>th</sup> Put out 8 gopher sets along the river this morning - up stream from Camp. Shot two Lazuli bunting and an Ammo.

Took four gopher by 1<sup>00</sup> pm and one more about six pm ~~from a to~~. Shot two bats at twilight.

This Camp lies in a fairly broad valley with Mt. seven thousand foot mountains to the west and a range of somewhat lesser altitude to the east. The general nature of the valley is sandy with *Atriplex* - *Chrysanthemum* and *Chenopodium* of rather luxuriant growth in many places. There are many areas of soft sand which seems to shift about a little with varying winds. The lower land close to the river is cut into small Indian farms in many places and the river banks out possibly 1000 yds in some places support a growth of large cottonwood trees. Our Camp was located in one of the groves and it proved to be a pleasant one. The river here is very shallow - but by digging ~~in~~ the middle of the stream we made a place to bathe.



Edge  
1934

# Itinerary

July 11 Took up gopher traps this morning - nothing in the traps - The five live traps have not yielded any result tho have had them out around Camp for several nights.

~~Left Broken Cap~~<sup>little</sup> before noon and left for Mt Grant via Shurz - The country was barren and rocky as the road followed the west shore of the lake but many of the cliffs contained caves and large crevices - No animal life was noted but a number of aquatic birds were observed on the lake. The road up Cotton-Wood Canyon was about 10% grade with willows and Cotton Woods along the little creek that runs down the Canyon - About a mile after turning off the main road and into the canyon we encountered the pinyons which extended from about 5500 to about 7500 ft. A camp of CCC workers are widening and improving the road - Above the pinyons sage brush Artemesia and patches of Mountain mahogany occur - the country is not precipitous but many rocky outcrops and points occur - We camped at Lapow Canyon 8900 ft. Mt. Grant, Mineral Co., Nev.



P  
Edge  
1934

## Itinerary

July 11<sup>th</sup> Cont'd Put out 50. goat traps, 2 rat traps and 4 gopher traps west from Camp thru sage brush to rocky outcrops about  $\frac{1}{2}$  mile then north and back to camp along gully.

July 12<sup>th</sup> Took up traps this morning total 24 mammals as follows -

3 Perog. Parus, 1 *Peromyscus maniculatus* and 2 *Thomomys quadratus*. - Shot one *Callospermophilus lateralis* on rocks outcrops - 1 Juneo and 1 Brewers Sparrow.

Visited seven traps set in rock outcrop took 1 miniatue *Callospermophilus* - shot two mountain blue birds -

Set out 3 gopher sets, 27 goat traps in bog - 5 in sage above bog - abt N.E. of Camp about two hundred yards -

July 13<sup>th</sup> Took 5 *Microtus* and 3 *P. maniculatus* in bog traps - Nothing in sage. Sire traps set near tent yielded 1 miniat. *P. maniculatus*. Traps at rock outcrop  $\frac{1}{4}$  mile W Camp yielded nothing - In sage Artemesia above bog saw a white crowned Sparrow with two young able to fly a little. Shot into a flock of about 15 Horned Larks on Meadow south of bog and killed two - Took 3 gophers from the gopher sets. Left 34 goat trap in the bog about 150 yds S.E. of



Edge  
1934

## Itinerary

Camp. Visited traps in bog about 1 pm and took 7 *Microtus* <sup>gout.</sup> Put out ten more traps. Several of the *Microtus* had ~~been~~ <sup>been</sup> killed from exposure to the sun. Took 2 more *Microtus* at six pm when ~~the location of~~ a number of the traps were changed. Put out three gopher sets on the way to the bog.

July 14 - Took up steel traps & gopher traps - nothing. Took up the 45 traps from the bog - 11 mammals - 2 *P. maniculatus* and 9 *Microtus montanus*. Made sketch of *Microtus* burrows and runways. Took photo of habitat and a typical runway - Moved Camp after lunch back down Cottonwood Canyon - to station:

Cottonwood Creek 7400 ft., Mt. Grant, Mineral Co., Nev.

Set out in the evening 30 gout traps <sup>4 rat traps</sup> along and in rock slide just south of camp along creek up slope E of road and about 150 yds ~~above~~<sup>5</sup> of camp - Put out 1 gopher set in the little meadow at the top of the first slope -

This camp is pretty well up in the pinyon belt - it lies in a rather narrow valley down which the Cottonwood Creek flows - Large Aspens line the creek banks - *Artemesia* with



Edge  
1934

## Itinerary

Scattered pinyon grow on the narrow floor of the valley - while a fairly heavy stand of pinyon cover the E and W. slopes of the valley - - Willows and ~~black~~ rose bushes line the banks of the smaller creeks which enter Cottonwood Creek. Mahogany can be seen from camp about three or four hundred feet up the E slope.

July 15<sup>th</sup> Took 11 mammals from the traps this morning: 2 Neotoma cinerea, 1 Thomomys quadratus, 1 Merotus monax, 1 P. maniculatus and 1 Castor from a trap in Cottonwood Creek near the camp.







Edge  
1934.

Birds Observed and  
Collected

June 28 to July 1<sup>st</sup> 2 mi. S.W. Pine Grove, 7250 ft. Mineral Co., Nev.

Western Tanager shot

Greentail Towhee trap

Texas Nighthawks shot

Poor-will

West Robin

West Blue Bird

Blue Jay - - -

Ruby <sup>front</sup> Hummer

Junco

Black throat gray Warbler

Purple Finch

Chipping Sparrow trap

July 1<sup>st</sup> 12 mi. S. Mervin, 4600 ft., W. Walker R. Lyon Co., Nev.

L. tail Chat

W. Blue bird

Subtropical Warbler

Mellow Warbler -

Magpie -

Mourning Dove

Cliff Swallows.

Brewer + Redwing Blackbird - Marsh Hawk

W. Robin -

Haw Finch

Song Sparrow

Sparrow Hawk

Redtail? Hawk.

Days Phoebe.

Meadow Lark

Green back Goldfinch

Arkansas Flycatcher

S. Blue Heron

Black Crown Night Heron

Redwing Tanager

Bush Tit

Quail



Edge  
1934

Birds Observed

July 7<sup>th</sup> 3 mi. S. Hwy 610, Mineral Co., Tex.

Foot.

Common Hawk

Mesquite Lark

W. Robin

Mourning dove.

Yellow warbler

Hairy? Woodpecker

Tex. Righthawk

Sazuli Bunting.

Blackthroat Sparrow

Bullock's? Oriole

Arkansas Kingbird

Great blue heron

Cinnamon? Teal.

Brewer? and Redwing Blackbird

Western Fly catcher

July 12 - Lapon Canyon 8900 ft., Mt. Grant, Mineral Co., Tex.

~~See~~ Brewer's Sparrow

Junco -

Horned Lark

Sage Thrasher

Junco -

Mt. Bluebird.



Aug 1984

*Peromyscus maniculatus*

June 28 2 mi. SW Pine Grove, 7250 ft.  
Mineral Co. Nevada:

Caught 14 in 40 traps set in Artemesia,  
in Piñon pines and in broken rock  
areas from canyon floor to summit  
of ridges.

Approximately  $\frac{1}{3}$  were young and  
immature.

June 29 Caught 24 in about 81 traps, 5 from  
locality trapped over June 28<sup>th</sup> and 19  
from points  $3\frac{1}{2}$  miles SW and  $2\frac{3}{4}$  mi SW  
of Pine Grove; the majority from the  
former, the type of country much the  
same, i.e. Artemesia, Piñon and the  
soil sandy loam mixed with varying  
amounts of fragmented rocks - young and  
immature ~~made~~ up from  $\frac{1}{3}$  to  $\frac{1}{2}$  the  
catch.

June 30 Took 13 in 44 traps appx  $\frac{1}{3}$  young -  
showed preference for tall relatively dense  
Artemesia.

July 2. Took 4 along river bank and willows and  
out in Atriplex in rocky & gravelly  
areas - 50 traps

July 3 Took 8 in 40 traps - Taken down in river bottom  
along irrigation banks and on stony hillsides.



*Peromyscus maniculatus*

July 9th 1934

July 9th 3 mi S Shurz, 4100 ft., Mineral Co., Nev.

Three taken at edge of Cottonwood and sand area zone. One taken in willows near river was

very dark in color -

July 12th Mt Grant, Sappon Canyon 8900 ft., Mineral Co., Nev.

Took 18 in sage brush, sandy soil and around rock outcrops. Practically all were matine. The coloration seems more constant and on the average is perhaps slightly darker than those taken at 3 mi S. Shurz.

July 13 or 14 Three taken in first set and two on second day in the runways of *Microtus montanus* - in sets made for these latter animals in the bog about

150 yds. S of Camp <sup>15</sup>  
Cottonwood Creek 7400 ft., Mt. Grant, Mineral Co., Nev.

July 15 - Took eleven from traps at base of rock slide and along edges of Cottonwood Creek, also in sage brush.



①  
July 1934

*Peromyscus truei* truei

June 28

3 mi. 2 W Pine Grove, ~~7800~~<sup>7800</sup> ft., Mineral Co., Nevada

Caught two young on rocky hillside SW exposure 3 mi SW Pine Grove - sparse growth of low Artemesia. 55 traps in various habitats

July 2

12 mi. S Yerington, 4600 ft., W. Walker R. Lyon Co. Nev.

One taken in lower levels among Atriplex in rather gravelly soil with occasional large boulders.

July 8

two taken at edge of Cottonwoods and Atriplex sandy soil <sup>at base</sup> 3 mi S Shurz <sup>4100 ft</sup> Mineral Co. Nev. - seem to be somewhat lighter colored.



*Peromyscus crinitus*

July 2, 12 mi S Merington, 4600ft., W. Walker R. Lyon Co., Nev.  
Two taken on rocky hillside north  
of camp - scattered Atriplex. Apx  
20 traps in that area.

July 3. Took two on stony ridge east of  
camp in scattered Atriplex + Ephedra.



*Reithrodontomys megalotis*  
*megalotis*

Aug 1934  
June 28

2 mi. SW Pine Grove, 7250 ft., Mineral Co. Nevada

None taken

July 2 12 mi S Yerington, 4600 ft., W. Walker R. Lyon Co., Nev.

One taken in Willows along River bank.

July 3 - Took three in damp grassy patch  
in willows - river bottom.

July 4 Took 2 10 mi S Yerington, 4500 ft., Mason Valley,  
Lyon Co., Nev. on sandy ridge at edge of  
Alfalfa fields - mixed large shrubs, part Atriplex  
18 traps out.



*Perognathus Parvus* - olivaceus

Page 1934

June 28 2 mi. SW Pine Grove, 7250 ft., Mineral Co., Nevada

June 30<sup>th</sup> Took 2 in relatively dense tall

Artemesia near road - 44 traps in various  
habitats. Soil generally sandy loam -

July 12 - Lapon Canyon, 8900 ft., Mt. Grant, Mineral Co., Nev.

Took three this morning in traps set in  
Artemesia - sandy soil, West of Camp - 45 traps



Edge  
1934

*Perognathus formosus*

<sup>up Walker R.</sup>

July 2 12 mi. S Merington, 4600 ft., Lyon Co., Nevada  
Took 3 on rocky hillside north of  
camp - scattered Atriplex. Apx  
20 traps in that area.

July 3 Took 2 in traps on rocky hillside east  
of camp - Ephedra bushes among the  
Atriplex were best places apparently.



*Perog. longimembis* -  
panamint.

July 3. 12 mi S Mervington, 4600 ft, W. Walker R., Lyon Co., Nev.  
One taken on stony ridge east of camp  
under Ephedra bush - general vegetation  
was scattered Atriplex and occasional Ephedra

July 4- 10 $\frac{3}{4}$  mi S, 2 $\frac{3}{4}$  mi E Mervington, Mason Valley,  
Lyon Co., Nev. ~~traps~~ 2 in sandy  
draw - scattered low Atriplex

July 8 1 mi NW Burns, 4500 ft, Mineral Co., Nev.  
Looked on slope - dark rocks in sandy  
soil & Atriplex rather scattered. - 45 traps.



Edge 1931  
June 28

*Dipodomys leucogaster* -

2 mi SW Pine Grove, 7250 ft. Mineral Co. Nevada  
None taken - Taken by others in Artemesia



*Dipodomys ordii*

(Columb.)

July 4 10 mi. S. Merington, 4500 ft., Mason Valley,  
Lyon Co., Nev. Five taken on Sand  
River at edge of Alfalfa field - tall  
shrub Art. ~~Art.~~



*Dipodomys Merriami* -

July 4

$11\frac{3}{4}$  S +  $2\frac{3}{4}$  E mi. Wernerton Mason Valley, Lyon Co.,

<sup>neq.</sup>

Took two in sandy draw - scattered small Atriplex. Soil sandy but firm.

July 9,

3 mi S Shurz, 4100 ft., Mineral Co., Nev.

Took 7 in sand north of Camp - Atriplex and Chrysanthamus? of tall habit.

Tracks and burrows are every where in the softer sand. 35 traps.



*Microdipodops pallidus*:

July 4<sup>th</sup> 11  $\frac{3}{4}$  mi S, + 2  $\frac{3}{4}$  mi E Merington, Mason Valley, Lyon Co., Nev.

Took four in sandy draw - scattered growth of Atriplex - Soil generally loose sand.

July 9 3 mi S Shurz, 4100 ft, Mineral Co., Nev.

Took two in sandy country north of camp and near R.R. tracks. irregular but tall Atriplex and Chrysanthemus. 35 traps



*Woodomys merriami* Merriam

July 8 7 mi. N.W. Piney, 4500 ft., Mineral Co. Nev.

Took 2 on sandy slope colored dark by small black rocks - dwarf Artemesia.  
45 traps.



*Pallospermophilus lateralis*

*trepidus.*

Edge 1934

June 28 2 mi. S.W. Pine Grove, 7250 ft. Mineral Co. Nev.

One young ♀ taken in rocks outcrop at top of ridge S. of Camp, in Pinons. ♀ trap there.

July 12

Lapon Canyon, 8900 ft. Mt Grant, Mineral Co., Nev.  
Shot one young male on rocks outcrop just above placer mine workings - Surrounding vegetation was sage brush - Saw another at that point also -



Edge  
1934

*Eutamias minimus*

June 28 - 2 mi SW. Pine Grove, 7250 ft., Mineral Co., Nevada.

One young ♂ taken in gully SW of Camp -  
among Artemesia - Several others were seen  
in the same locality. 15 trap at that locality.

July 12 Lapow Canyon, 8900 ft., Mt. Grant, Mineral Co., Nev.

Took one in rock outcrop surrounded by  
 sage brush - west of camp about  $\frac{1}{4}$  mile.



George  
1934

*Peromyscus quadrivittatus*

June 28 2 mi. SW Pine Grove 7250 ft. Mineral Co. Nev.  
One young ♀ taken in rock outcrop near  
top of ridge S. of Ranch in Pinons. ♀ traps  
out at that point.



*Omychomys leucogaster* *versicolor*

July 8. 7 mi NW. Tucson, Hwy 80, Mineral Hill, Ariz.

Teck one on east side of road - sand mixed with small black gravel - dwarf Atriplex - ground sloped west towards higher ridges. 48 traps.



*Pipistrellus hesperus-*

July 9, 3 mi. S Shurz, 4100 ft., Mineral Co. Nev.

Shot one flying around trees shortly after sunset - They are fairly numerous here among the Cotton wood trees and especially along the river - a few are out hunting well before sunset! Most numerous shortly after sunset.



Edge

1934

*Peromyscussimulus leucurus*

3 mi S Shurz-4100 ft. Mineral Co. Nev.

July 8<sup>th</sup> Not one in Shurz, and I felt most  
of camp.

July 10<sup>th</sup> That one near Cottonwood trees west  
of camp. They are fairly numerous  
here - especially on the road to Shurz  
about two miles out where there is  
a barley & an alfalfa field next to the  
road.



Edge  
1934

*Thomomys quadratus*

June 30 2 mi. SW Pine Grove, 7250 ft. Mineral Co., Nev.

2 ♀ taken in small patch of meadow  
at spring just N of camp - from 3  
double sets. Soil - black loam with small  
pieces of broken rock -

July 12<sup>th</sup> Mt Grant, cap on summit 8100 ft., Mineral Co Nev.

Took two in thick grassy meadow  
by the camp - impressed me as being  
a little browner than those at Pine grove.

July 3 - Took three in grassy meadow SE  
of camp about 100 yds - 3 sets - Several  
of the mounds examined had three  
runways leading from the mound.  
Soil ~~seems~~ to be very fine grained loam.  
Mounds are fairly numerous in the  
narrow meadow or band of grass  
that lies on each side of the small  
brook which runs up the valley -  
In many places on the hillides  
in Artemesia filled in snow runway  
can be found. These cylindrical  
structures generally ran transversely  
across the slope of the hill so that  
they should check rapid run off of  
water. Noted a few recent  
mounds out in the Artemesia.

July 15 Cottonwood Creek 7400 ft., Mt Grant, Mineral Co., Nev.

Took one in small meadow at top of first E slope  
150 yds north of camp - Several other workings noted here.



Edgar  
1934

*Thomomys bottae*

July 10 - 3 mi. S Shurz 4100 ft Mineral Co. Nev.

Took three adults and one immature along river bank about 200 yds west of camp. Soil quite sandy supporting a straggling growth of young Cotton-Woods - Burrows are in damp sand about a foot and a half above the river water level. Took one more immature at six pm. from one of the traps moved at 1 pm. It ~~appears~~ seems that breaking open the burrow disturbs the animal if he is resting near - if he is too far away to be disturbed he probably isn't using that section of the burrow - as a result any long set in one burrow is not likely to be profitable?

Lapon Canyon 8900ft. Mt Grant.,  
Mineral Co., Nev.  
*Microtus montanus*

N.



1 meter  
scale to app.



Shrub layer on lower 31/2 to 4 cm wide - back  
of hillside. Elevating level.

Open meadows, still high up

With a lot lower, open patchy  
part of meadows.

Covered but with thickets. Many places  
grazed by sheep - grass of meadows  
poisoned.

*Microtus montanus* O faecal pellet.

July 13<sup>th</sup> Laramie Canyon 8900 ft., Mt. Grand, Mineral Co. Nev.

Took five - 3 adults - 2 immatures from 27 goat traps set in bog about 150 yards SE of the Camp - There are numerous tufts of grass or mounds thru which burrows run and between which the burrows run - cut grass and feces are common in the runways - The more frequently used runway appear to be those not saturated with water nor yet dried out. The seepage <sup>which causes the bog</sup> extends along the base of the hill - N and S for about 100 yards - *Artemesia* starts immediately a.m.e the seepage line -

July 14. Made sketch of sq. meter of typical runways and burrows - (back opposite page) Found a little dried grass in central burrow - Pressed specimen of same - it is the common grass around the runway - A number of others which dug open but only a couple of thin grass lined, slightly enlarged place in the burrows found - All found had two or more openings. Feces appeared to be accumulated in certain spots as tho the animals might have had a definite place for this purpose.



Edge

*Microtus m. m.*

July 15<sup>th</sup> Cottonwood Creek 7400 ft., Mt. Grant, Mineral Co., Nev.

Took one in a trap placed in the middle of the small creek that enters Cottonwood Creek about 150 yds S of camp. Trap was about  $\frac{1}{2}$  way up first E slope, willows and rose bushes lined banks -



Edge  
1934

*Nestoma cinerea*

July 15<sup>th</sup> Cottonwood Creek 7400ft., Mt Grand, Mineral Co., Nev.

Took two in 4 rat traps set in rock slide immediately S of camp on the W slope. Noted a number of openings between the rocks where there was patches of the white + green mineral? deposits and a considerable amount of feces.













